

## **Title: Profitability of Mango Based Agroforestry System**

**Major Professor: Prof. Dr. M. Kamruzzaman**

Name of the author: Md. Junaid Alam

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### **Abstract**

The present study was undertaken to find out the production practices and profitability of mango based agroforestry system in Khulna district. Farmers adopting mango based agroforestry system of the Paikgacha upazilla under Khulna district were the population of the study and sixty farmers were selected randomly from the population using table of random number. Among the sixty selected farmers, 32 were small, 20 were medium and 8 were large according to farm size. The findings of the study showed that 20 percent farm owners were illiterate and 45 percent of the farm owners were primary educated. Most of the farmers (48 percent) were middle aged and 77 percent farmers were fully depended on agriculture. Mainly three types of agroforestry practice found in the study area namely Mango + T Aman + Boro, Mango + T. Aman + Vegetable and Mango + T. Aman + Pulse followed by 47 percent, 28 percent and 25 percent farmers respectively. The highest return and BCR were obtained from Mango + T. Aman + Vegetable followed by Mango + T. Aman + Boro and Mango + T. Aman + Pulse. The BCR of Mango + T Aman + Boro, Mango + T. Aman + Vegetable and Mango + T. Aman + Pulse practice were 2.42, 2.63, 2.59 respectively. Again the BCR of Mango + T Aman + Boro, Mango + T. Aman + Vegetable and Mango + T. Aman + Pulse practices with cost and return of standing tree species were 3.73, 4.04 and 4.19 respectively after compounding for 10 years. Among the different constraints, lack of good quality planting material and seed, high price of the production input like fertilizer and pesticide and unstable market price were formed dominant. For increasing production of fruit and crop, necessary inputs particularly good quality planting material and HYV seed, fertilizer, insecticide and pesticide etc. should be made available to the farmers just before the growing period and Government should take necessary steps to develop marketing system.